

**Sharon Hanson**

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**From:** mavis sarpong [mavissarpongshipping@yahoo.com]  
**Sent:** Friday, January 21, 2005 9:54 AM  
**To:** Frank Husson  
**Subject:** Re: AquaPak Solar Powered Water Pasteurizers

Dear Frank,

Thanks very much for your mail and the efforts put up to help developing countries who are in need of potable water. Since your project could be of great use to some part of Ghana, it is my fervent hope that I and my partners in Ghana to share this noble idea and do business with this. Hence I have forwarded your mail to them.

There are some few questions to be asked but the website given will help to illustrate some issues clearly.

I will revert back to you soon after reading through information extracted from the website.

Thanks very much.

From  
Sarpong

**Frank Husson** <[fhusson@solarsolutions.info](mailto:fhusson@solarsolutions.info)> wrote:

Dear Mr. Sarpong:

It was nice to talk with you on the telephone this morning.

Solar Solutions LLC is a family-owned humanitarian business that designs and manufactures products for use by people in the developing world. We have developed an inexpensive solar-powered water pasteurization device, the AquaPak, based on the 140 year old pasteurization process discovered by Louis Pasteur, primarily for the rural populations in developing countries and refugees. Using only solar energy, the AquaPak can produce enough potable water daily for a mother and child.

The AquaPak can be manufactured for less than \$1.00US each when using a labor rate of \$0.60US/hour. Our business model is to help entrepreneurs and local businessmen set up independently-owned AquaPak manufacturing facilities in developing countries where the AquaPak could be manufactured for under \$1.00 each.

We are currently working with many humanitarian organizations and NGO's including UNICEF, Project Concern, Rotary International, etc. in conducting worldwide field testing of the AquaPak. The initial test results indicate the AquaPak is performing as expected and is providing safe drinking water to those in need.

Additional information about our company and the AquaPak is available at [www.solarsolutions.info](http://www.solarsolutions.info). We look forward to working with you to help bring potable water to those in need.

Sincerely,  
Frank Husson

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## Sharon Hanson

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**From:** Janine Chen [jchen@solarsolutions.info]  
**Sent:** Friday, September 10, 2004 9:24 AM  
**To:** fhussan@solarsolutions.info  
**Subject:** FW: AquaPaks (Tajikistan)

For when Frank returns, if he would like to address this feedback.

Janine

-----Original Message-----

**From:** Murat Sahin [mailto:msahin@unicef.org]  
**Sent:** Tuesday, September 07, 2004 7:07 PM  
**To:** Janine Chen  
**Cc:** 'Ikram Davronov'; 'Nargiz Babakhanova'; 'Yukie Mokuo'  
**Subject:** RE: AquaPaks (Tajikistan)

Dear Janine,

Sanitary Epidemiological Station under Ministry of Health who is the main body responsible for Water quality monitoring in Tajikistan is testing the Aqua Packs in Moskovsky district among 25 households. We are expecting to have the results tabulated by the end of September and will be sharing with you soon after. Initial results show that water is safer and the hard ware is working properly however the main problem is the hygiene behavior of the people and handling of water within the household in the country. The aqua packs needs to be supported with a hygiene package and linked with hygiene promotion strategy which needs to be further developed.

As for the payment It is in process and I hope you will have it by next week. Best Regards

Murat Sahin  
Child Development Project Officer  
UNICEF Dushanbe  
Telephone: ++992 372 218261/249108/249036  
Facsimile: ++992 372 247788/510081  
E-mail: msahin@unicef.org  
Web: www.unicef.org

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For every child  
Health, Education, Equality, Protection  
ADVANCE HUMANITY

<msahin@unicef.org> "Janine Chen"  
<ymokuo@unicef.org> <jchen@solarsolu To: "'Murat Sahin'"  
<idavronov@unicef.org> tions.info> cc: "'Yukie Mokuo'"  
<nbabakhanova@unicef.org>, "Nargiz Babakhanova"  
<idavronov@unicef.org> Subject: RE: AquaPaks  
<idavronov@unicef.org> 09/08/2004 12:48  
(Tajikistan) AM

Dear Murat,

I am emailing you to remind you of our need for an update on the progress of the AquaPaks in use. Have you been able to test them? What are the results so far?

Mr. Husson is on a business trip to New York this week and is meeting with UNICEF this Friday. He would like to be able to understand the situation in Tajikistan before then.

Thank you,  
Janine

10080 Willow Creek Road  
San Diego, CA 92131  
P: 858.695.3806 F: 858.695.3807  
www.solarsolutions.info

-----Original Message-----

From: Murat Sahin [mailto:msahin@unicef.org]  
Sent: Tuesday, August 10, 2004 6:36 PM  
To: Janine Chen  
Cc: 'Yukie Mokuo'; Nargiz Babakhanova; Ikram Davronov  
Subject: Re: AquaPaks

Dear Janine,

Thank you and well come also convey our regards to Isabelle who had initiated a quick process. We have been in touch with Isabelle and we had sent an email on our receipt of 100 aqua packs. We are working now with Sanitary epidemiological station on establishing a testing system in the country. I would appreciate if you can share with us the

1. Reporting format that UNICEF offices are using for reporting back to you their experience with Aqua Pack.
2. Scanned copy of the shipping receipt.

Thank you and Best Regards

Murat Sahin  
Child Development Project Officer  
UNICEF Dushanbe  
Telephone: ++992 372 218261/249108/249036  
Facsimile: ++992 372 247788/510081  
E-mail: msahin@unicef.org  
Web: www.unicef.org

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For every child  
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"Janine Chen"  
<jchen@solarsolutions.info>  
<msahin@unicef.org>  
<ymokuo@unicef.org>  
To: "'Murat Sahin'"  
cc: "'Yukie Mokuo'"  
Subject: AquaPaks  
08/10/2004 11:55  
PM

Dear Mr. Sahin,

Allow me to introduce myself. My name is Janine Chen and I am a student working at Solar Solutions for the summer. Along with my other responsibilities, I am attempting to continue all the wonderful work that Isabella has done. I wanted to follow up with you and find out whether or not you have received the shipment of 100 AquaPaks that we sent to you on 7/22/04. I would appreciate it if you notified me when you receive them... We are eager to hear of any results you may find when testing the AquaPaks... If you would like, we do have a test report example from UNICEF that I could forward to you to base your testing on.

I will be here at Solar Solutions until September 10th and look forward to working with you.

Sincerely,  
Janine Chen

10080 Willow Creek Road  
San Diego, CA 92131  
P: 858.695.3806 F: 858.695.3807  
www.solarsolutions.info

## Sharon Hanson

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**From:** Mark O'Donnell [modonnell@projectconcern.org]  
**Sent:** Wednesday, August 13, 2003 11:23 AM  
**To:** fhussan@solarsolutions.info  
**Subject:** FW: AquaPak Solar Water Pasteruizer



Summary of  
Implementation of S.

Frank:

Here is the report that was forwarded to me by Nicolas. Please don't hesitate to contact him directly. Regards, mark

-----Original Message-----

From: Nicolas Coto  
Sent: Wednesday, August 13, 2003 10:09 AM  
To: Mark O'Donnell  
Cc: John McPhail; Christine Mundt  
Subject: RE: AquaPak Solar Water Pasteruizer

I'm sorry, but I forgot attach the file.

Nicolás Coto

-----Original Message-----

From: Nicolas Coto  
Sent: Wednesday, August 13, 2003 9:06 AM  
To: Mark O'Donnell  
Cc: John McPhail; Christine Mundt  
Subject: RE: AquaPak Solar Water Pasteruizer

Hi Mark, attach you can find the file with the delivery of the AquaPak Filters in community Cuevitas. I already had sent a report about this community.

Nicolás Coto

-----Original Message-----

From: Mark O'Donnell  
Sent: Tuesday, August 12, 2003 10:43 AM  
To: Nicolas Coto  
Cc: John McPhail  
Subject: FW: AquaPak Solar Water Pasteruizer

Nico:

Como estas? Que podemos reportar a Frank. Me ha llamado varias veces para un reporte. Gracias, mark

-----Original Message-----

From: Frank Husson [mailto:fhussan@solarsolutions.info]  
Sent: Tuesday, August 12, 2003 9:37 AM  
To: Mark O'Donnell  
Subject: AquaPak Solar Water Pasteruizer

Dear Mr. O'Donnell

We were hoping to follow up on our last correspondence of January 17, 2003, regarding our solar water pasteurizer, the AquaPak. We wanted to confirm that you did indeed receive our shipment of the sample AquaPaks along with the related literature. As previously stated, we are seeking organizations interested in partnering with us to aid developing countries through the manufacture and use of the AquaPak.

We would very much appreciate your feedback regarding the AquaPak. You can contact us by email at [fhusson@solarsolutions.info](mailto:fhusson@solarsolutions.info) or fax us at (858) 675-3807.

Sincerely,  
Frank D. Husson, Jr.

**Sharon Hanson**

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**From:** Douglas Waserite Dodiya-Manuel [dodman1000@yahoo.com]  
**Sent:** Monday, January 03, 2005 12:08 PM  
**To:** contact@solarsolutions.info  
**Subject:** AquaPak Project

Dear Frank,

It has been quite a while since we communicated.

The delay from my angle was due to the political wall that I had brake in order to achieve what is to be achieved.

If you rememebr very well, you called me and we discussed at length, and then Isabella followed up and assisted me with contact information as to enable me get financial surpport for the project of establishing a factory in Nigeria and to that effect we communicated to prodigious and progressive extent with the Acumen Fund in America, which show interest but with the proviso of proof of the viability of selling this AquaPak in Nigeria though your company is to get us commercially link with the United Nations too.

Now, as a result of my surport for the Niger Delta People's Volunteer Force (Alhaji Dokubo Asari) and God; divinely positioning me for favour, I have been able to brake through the system and so, i'd want us to commense communication on our business plans in Nigeria.


I am an Ijaw man from the Niger Delta region of the Nigerian state and we have been maginalized for too long.

I shall also introduce the AquaPak to the Niger Delta Developement Commission (NDDC).

I hope to hear from you soonest.

Regards

Douglas Waserite Dodiya-Manuel  
Phone: +234 802 322 6434  
+234 805 266 0929

 "Be positive minded. No matter how dark things seem to be or actually are, raise your sights and see possibilities - for they're always there."- Dr. N. V.Peale-Douglas DodMan

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1/24/2005



**Sharon Hanson**

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**From:** olof palme [olofpalme114@yahoo.co.uk]  
**Sent:** Wednesday, November 17, 2004 4:17 AM  
**To:** fhussan@solarsolutions.info  
**Subject:** Re: Smokeless Alternative for Hot Safe Water – Solar-Powered Water Pasteurizer

Dear Sir,

We read with interest your solar based **AQUAPAK** and must admit that we were highly impressed by your innovation. Olof Palme Peace Foundation has for the last six years been working actively with the Government of Ghana, the World Bank and District Assemblies in providing potable water for deprived communities.

The water situation in some of these communities is so deplorable that, water borne diseases are very rampant in such communities.

It is as a result of this that we would want to learn more about the **AQUAPAK** technology and if possible team up with you so that together we can make potable water accessible to all. A baseline survey that the organisation conducted indicated that, the average Ghanaian, in spite of the poverty existing in the country can raise the \$1.00 to purchase the Aquapak.

We therefore will be grateful if you can furnish us with additional information and other opportunities for us to work together.

Once again thank you for the concern you have shown for the welfare of others.

Yours in the service of humanity  
SIGNED

EDMUND NSIAH-BOADI  
Project Coordinator

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**ALL-NEW Yahoo! Messenger - all new features - even more fun!**

**Sharon Hanson**

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**From:** njoroge wangosho [wangosho@yahoo.com]  
**Sent:** Monday, November 01, 2004 12:17 AM  
**To:** fhusson@solarsolutions.info  
**Subject:** RE: expression of interest in Aquapak

Dear Mr.Husson,

I stated in my last email that i am interested in Aquapak.I would be glad if you send me a proposal and any other information relevant on the subject.

faithfully yours,  
 j.n.wangosho

*Frank Husson <fhusson@solarsolutions.info> wrote:*

Dear Mr. Wangosho:

Thank you for your email. If you are interested in setting up an AquaPak manufacturing facility in Kenya, we would e glad to send you a proposal. Incidentally, there are a number of people and organizations already testing the AquaPak in Kenya including UNICEF in Nairobi.

Looking forward to hearing from you.

Sincerely,  
 Frank Husson

-----Original Message-----

**From:** njoroge wangosho [mailto:wangosho@yahoo.com]  
**Sent:** Tuesday, October 26, 2004 6:52 AM  
**To:** fhusson@solarsolutions.info  
**Subject:** RE: Smokeless Alternative for Hot Safe Water -- Solar-Powered Water Pasteurizer

attention mr.husson.

i have studied the aquapak and i dare say it is a viable solution in offering affordable clean water for human consumption.the cost should is also very friendly to third world masses pockets.

basically people use chemicals to purify their water here if they do not want to waste their time boiling the water.considering this options vis a vis your product...it definetely looks the superior method.note also that most people in kenya have no access to quality water...be it in rural areas or in urban places.that is why bottled mineral water is such a booming bussiness in urban places!

setting out a manufacturing base here for aquapak would be a clincher.with proper education of masses on benefits of the product...it would definetely do well.what i do not know is how this can be achieved but if people get down on it it can be done.incidentally am a land surveyor...what you call in the west geomatic

engineering! so, needless to say when am doing projects in rural areas i know clean water is a major problem.before anything i have pack my own water....well coz i don't think going down with stomach upsets while in the field is a great idea!!!good day.hear from you soon.

j.n.wangosho

*Frank Husson <fhusson@solarsolutions.info> wrote:*

Dear Mr. Wangosho:

Thank you for your email of October 23 and for looking on our web site.

The solar water purifier that you were looking at is an AquaCone solar distiller that distills any water (i.e. salt water, mercury-containing water, etc.) except water with VOC's (volatile organic compounds like gasoline) into pure water. The \$200 price is our retail price. Even so, the cost to manufacture the AquaCone is approximately \$50 each and it only produces relatively small amounts of water (liters/day). The AquaCone was the first product we developed and, after its introduction, we read a report by the NREL (National Renewable Energy Laboratory, a US Federal laboratory) that identified solar pasteurization as the best method to rid water to the biological pathogens found in most naturally occurring fresh water (lakes, streams, simple wells, etc.).

To accomplish this process, we developed the AquaPak which includes a temperature sensor to accurately measure the 67 degree C temperature needed to effectively kill 99.99 percent of the pathogens (bacteria, virus, and parasites) that can cause human illness. We sell this solar pasteurizer, the AquaPak, for \$20 retail on our web page since it costs us approximately \$6.82 to manufacture in San Diego with our \$20/hour labor rates.

If the AquaPak was manufactured in a country with a \$0.60/hour labor rate which is typical for many developing countries, the AquaPak can be made for approximately \$1.00 each. Please review our web page and look at the AquaPak, solar water pasteurizer, not the AquaCone distiller. We hope to identify entrepreneurs and other business people in developing countries who will, with our help, set up a manufacturing line and build AquaPaks in Kenya.

After you have studied the AquaPak, please write again and we can

discuss further.

Sincerely,  
Frank Husson  
Solar Solutions

-----Original Message-----

**From:** njoroge wangosho [mailto:wangosho@yahoo.com]  
**Sent:** Saturday, October 23, 2004 2:02 AM  
**To:** fhussan@solarsolutions.info  
**Subject:** Re: Smokeless Alternative for Hot Safe Water -- Solar-Powered Water Pasteurizer

HI HUSSON,

I am excited about the aqua pak.it should be able to significantly improve lives of many people who do not have access to electricity.

i saw the price ratings in ur website...i.e \$200.it is way above reach for many in 3rd world countries like kenya where i live.needless to say whatever potential it has can not be realised in such places.

is there alternative....in order to improve on affordability?i would like to hear ur solutions on that aspect.

j.n.wangosho

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## Sharon Hanson

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**From:** Jaime Frias [jaime@idevn.org]  
**Sent:** Monday, October 18, 2004 3:17 AM  
**To:** fhusson@solarsolutions.info  
**Cc:** Michael Roberts  
**Subject:** Re: Info request - Attn - Janine

Very interested indeed to receive samples of the Aquapak. We can test them in IDE Vietnam's project sites.

For your information, IDE works in promoting sustainable solutions for the poor. Having said this is that if we engage in testing this technology is under the assumption that they will be commercialized. I wanted to just make the point as many NGOs follow a "subsidy" approach for disseminating products.

My contact info as follows:

**Jaime Frias**  
**Country Director - Vietnam** ([www.idevn.org](http://www.idevn.org) / [www.ideo.org](http://www.ideo.org))  
**International Development Enterprises (IDE)**

**House No: 102 Linh Lang St.**  
**Cong Vi, Ba dinh**  
**Hanoi, Vietnam**

**Tel: (84-4) 7664249 / (84-4)7664245**  
**Fax: (84-4)7664240**  
**Mobile: 844-91-2356903**

I am cc copying my colleague and friend Michael Roberts from IDE Cambodia. We would be very interested in having the chance to test the Aquapak in Cambodia as well,

Find attached his contact information:

**Michael Roberts, M.S., P.Eng.**  
**SE Asia Regional Director**  
**International Development Enterprises**  
**PO Box 1577, 22 Street 592, Toul Kork, Phnom Penh, Cambodia**  
**Phone: (855) 23 880 604, Fax: (855) 23 880 059, Mobile: (855) 12 629 069**  
**E-mail: mroberts@online.com.kh, Web: [www.ide-international.org](http://www.ide-international.org)**  
Thank you in advance,

With best regards,

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**Jaime Frias**  
**Country Director - Vietnam** ([www.idevn.org](http://www.idevn.org) / [www.ideo.org](http://www.ideo.org))  
**International Development Enterprises (IDE)**

**House No: 102 Linh Lang St.**  
**Cong Vi, Ba dinh**  
**Hanoi**

**Tel: (84-4) 7664249 / (84-4)7664245**  
**Fax: (84-4)7664240**

1/24/2005

Mobile: 844-91-2356903

----- Original Message -----

**From:** Frank Husson

**To:** Jaime Frias

**Sent:** Saturday, October 16, 2004 5:17 AM

**Subject:** RE: Info request - Attn - Janine

Dear Jaime:

Thank you for your email and for your interest in our solar-powered water pasteurizer, the AquaPak.

I am responding to your email on behalf of Janine Chen, who has completed her internship with our company and has returned to school.

Solar Solutions is a family-owned humanitarian company formed to develop inexpensive solar-powered water purification devices primarily for the rural populations in developing countries and refugees.

Our solar-powered water pasteurizer, the AquaPak, uses the pasteurization process discovered by Louis Pasteur over 150 years ago. The AquaPak works best in countries located between the Tropics of Capricorn and Cancer, but can also be used in the summer months in areas north and south of the Tropics in the spring and fall by adding a detachable reflector to help increase the solar radiation.

The AquaPak can be manufactured in the developing world for less than \$1.00US when using a labor rate of \$0.60US per hour or less. Our business model is to help identify entrepreneurs or local businessmen and help set up independently-owned manufacturing facilities in their country. Any profits derived from receiving equity from developing world businesses in exchange for patent license, know-how, and training would be returned to the local community. The funds would be used to distribute AquaPaks through missions and clinics to the needy people without the financial means to purchase an AquaPak.

Currently, the AquaPak is being tested by organizations, clinics, and churches around the world. Project Concern is conducting field testing in El Salvador; Rotary International is field testing in Mexico; and UNICEF is field testing in Malawi, Kenya, Nigeria, and Tajikistan.

Attached please find copies of test results conducted by two independent laboratories confirming the pasteurization effectiveness of the AquaPak. In addition, attached is a copy of the US Department of Energy's National Renewable Energy Laboratory report corroborating the AquaPak's pasteurization capabilities and inexpensive manufacturing cost. For your further review, included with this email is a copy of our preliminary business plan and manufacturing cost estimate.

We will be happy to provide sample AquaPaks to you for your review and testing in Vietnam. Please let us know if the samples should be shipped to your attention at the address shown in your email.

We look forward to the possibility of working with you to help provide potable water to those in need.

Sincerely,  
Frank Husson  
Solar Solutions LLC

-----Original Message-----

**From:** Jaime Frias [mailto:jaime@idevn.org]

**Sent:** Thursday, October 14, 2004 7:14 PM

**To:** contact@solarsolutions.info

**Subject:** Info request - Attn - Janine

Dear Janine,

I have received your message through WSP-EAP. IDE Vietnam has a long tradition with water technologies for safe water drinking, safe storage, purification and sanitation. I read the message you sent to Mr Pollard with interest. We would be very interested to learn more about your product. I envision that we may set up a pilot interventions and assess the commercial viability in rural Vietnam.

If this is of your interest, please let me know to move ahead.

With best regards,

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Jaime Frias  
Country Director - Vietnam ([www.idevn.org](http://www.idevn.org) / [www.ideo.org](http://www.ideo.org))  
International Development Enterprises (IDE)

House No: 102 Linh Lang St.  
Cong Vi, Ba dinh  
Hanoi

Tel: (84-4) 7664249 / (84-4)7664245  
Fax: (84-4)7664240  
Mobile: 844-91-2356903

**Sharon Hanson**

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**From:** Majid Alladina [malladina@utlonline.co.ug]  
**Sent:** Thursday, October 14, 2004 10:53 AM  
**To:** fhusson@solarsolutions.info  
**Subject:** Uganda Opportunity

Frank:

I have been communicated to by some of your interens over the last little while. Thank you for keeping us updated. Any new progress or success stories from developing countries?

I am proposing the Solar Pasterizer to a USAID funded NGO in Uganda later today by way of an introduction to the product etc...They apparently have mandate for improving helath and sanitation in Africa. I have heard that they have teamed up with PUR to provide small sachets of some chemical that purifies water on contact and then filtered through a cotton cloth. These are supposed to be cheap and will be distributed by this NGO.

I am trying to see if we can piggy back on their distribution and actually have them take over the marketing fo the product for us. All we do is supply to the NGO. Now, I am sure I will need some features and benefits of the pasturizer versus the PUR approach.

Just wanted to keep you posted.

Regards,

Majid Alladina, CME  
Managing Director  
Infinity Media Ltd.  
P.O. Box 21366  
11 Portal Avenue  
Suite 4B  
Kampala, Uganda  
[infinitymedia\\_ug@yahoo.com](mailto:infinitymedia_ug@yahoo.com)  
[malladina@utlonline.co.ug](mailto:malladina@utlonline.co.ug)  
+256 (0)31-264-019/020 Tel  
+256-71-722-711 Cell  
1-413-403-2776 USA Tel/Fax  
SMS via trueafrican.com  
Number is 25671722711  
To send SMS by e-mail to my Cell>>>"71722711@sms.ugandatelecom.com"

The Secret of greatness is simple: do better work than any other man in your field - and keep on doing it.

-----Original Message-----

**From:** Frank Husson [mailto:fhusson@solarsolutions.info]  
**Sent:** Wednesday, February 18, 2004 3:33 AM  
**To:** Majid Alladina  
**Subject:** RE: distributor info

Dear Majid Alladina:



Thank you for your email and for your continued interest in our company. We're sorry for the delay in responding, however, we have recently moved our facility and experienced some difficulties with our email and internet and did not receive some inquiries including yours.

Our business model at Solar Solutions has been to develop and patent various solar-powered water purifiers designed for use by rural inhabitants that can be manufactured in developing world countries by local peoples for use in that country. In the case of the AquaPak, the glass WAPI (water pasteurization indicator) temperature detector is partially manufactured by Solar Solutions. We are working with entrepreneurs in various countries, including African countries, in an effort to help establish privately-owned local manufacturing facilities in developing world countries where the AquaPak could be manufactured for less than \$1.00US when using a labor rate of \$1.00US/hour or less. Once these foreign manufacturing companies are established, we could expect the distributor cost should be about \$2.00 each.

For our part, any profits received from the developing world businesses for which we would receive equity in exchange for patent license, know-how, training, etc. would be returned to that community in the form of AquaPaks that we would distribute to needy people who are unable to purchase an AquaPak themselves through various groups including missionaries, clinics, etc.

Attached is a copy of our preliminary business plan and manufacturing cost breakdown. The AquaPak is currently manufactured only at our San Diego, California facility. We offer a 50% distributor discount off of the US selling price of \$20.00, or \$10.00 each FOB San Diego, California.

Please let us know if you would like to receive a sample AquaPak for your review and testing.

Sincerely,  
Frank Husson

-----Original Message-----

**From:** Majid Alladina [mailto:malladina@utlonline.co.ug]

**Sent:** Saturday, February 14, 2004 10:57 AM

**To:** contact@solarsolutions.info

**Subject:** distributor info

I wrote to your organization many months ago and never received an acknowledgement or a response. I am interested in knowing more about your distribution plans for the Aqua paks and what your strategy is for Africa. I am interested in distribution of your products.

Please advise.

Regards,

Majid Alladina, CME  
Managing Director  
Infinity Media Ltd.  
11 Portal Avenue  
Suite 4B  
Kampala, Uganda  
[malladina@utlonline.co.ug](mailto:malladina@utlonline.co.ug)  
+256-71-722-711

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## Sharon Hanson

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**From:** CULHANE, THOMAS HENRY [tculhane@ucla.edu]  
**Sent:** Thursday, September 30, 2004 7:42 AM  
**To:** fhusson@solarsolutions.info  
**Cc:** MrsIats@aol.com; lynnfreiiji@yahoo.ca  
**Subject:** RE: Thank you for the Aquapaks!

Dear Mr. Husson,

Yes, we did indeed receive the AquaPaks as well -- I've been laid up with a broken leg so I didn't get to inspect everything that came in; I was informed about the Aquacone because one of our teachers tried to set it up and came and asked me about it. Now that I'm on crutches and moving about I'm getting back into the swing of things.

The Aquapak concept is something very dear to one of my professors here in Egypt, Dr. Salah Arafa, head of the physics department at AUC (and principle architect of the Bassaissa Solar village in the Sinai) . He worked with several aid organizations many years ago to champion the idea (now widespread) of purifying water by putting it in the ubiquitous empty liter cola bottles and setting them in the sun for several hours. He will be delighted by the information on your brochure and we will work together to promote your product here.

With this email I want to call your attention to the World Conference On Energy for Sustainable Development: Technology Advances & Environmental Issues" that we will be presenting at from December 6-9 here in Cairo. The conference falls directly during our Goodwill tour, and Ted Stern, our violinist (and holder of 11 patents on space mission photovoltaics in his mild mannered day life!) will also be presenting a new concept for combo photovoltaic/solar heating for developing countries.

Perhaps you would like to present as well? They are still calling for papers (abstract submission deadline was today, but one of our student's fathers is the host of the event, so we have some flexibility, particularly for foreign attendees).

You can get all the relevant information by visiting:

<http://www.aast.edu/mceet>

In any event, we would love to take you up on your offer to work with us during the concert tour/conference event as it is a great target of opportunity.

What I would like to do is to introduce you to Ted Stern if possible, since you are both in San Diego.  
(Ted, Solar Solutions can be found at 9950 Scripps Lake Drive, Suite 105, San Diego, CA 92131, phone 858 695 3806; Frank has included a mailing address below) .

Frank, I will also get a letter about the tour and its objectives written and sent on U.S. State Department Stationary and send you photos and get this ball rolling on our end!

Thanks for your response!

Sincerely,

T.H.

Board of Directors

Wadi Environmental Science Center  
Cairo Egypt

Quoting Frank Husson <fhusson@solarsolutions.info>:

>  
>  
> -----Original Message-----  
> From: Frank Husson [mailto:fhusson@solarsolutions.info]  
> Sent: Monday, September 20, 2004 8:26 AM  
> To: tculhane@mail.ucla.edu  
> Subject: AquaCone and AquaPak  
>  
>  
> Dear Mr. Culhane:  
>  
> Thank you for your email of September 10. I'm sorry for the delay in  
> responding but I have been traveling and have just returned to the  
> office.  
>  
> I'm glad that you have received the AquaCone and hope that you also  
> received  
> the AquaPak samples that were also shipped to the WADI Center. The  
> AquaPak  
> solar-powered water pasteurizer is much more energy efficient than the  
> AquaCone solar-powered water distiller to purify fresh water that is  
> contaminated with bacterial or viral pathogens.  
>  
> Our business model is to help entrepreneurs or local businessmen set up  
> independently owned AquaPak manufacturing facilities. The AquaPaks  
> could be  
> manufactured in Egypt for approximately \$1.00 each when using a labor  
> rate  
> of \$1.00US/hour.  
>  
> We would appreciate receiving pictures for our web site of the AquaCone  
> and  
> the AquaPaks being tested at the WADI Center.  
>  
> The sustainable development goodwill ambassador tour that you are  
> planning  
> sounds very exciting and we would love to participate in any way that  
> we are  
> able. We could provide 25 or 30 AquaPaks for distribution to local  
> health  
> and government officials or entrepreneurs. Please let me know if this  
> is  
> something that you would like to do and I will have the samples shipped  
> to  
> you. Our address so you can send us the letter about the tour is Solar  
> Solutions LLC, 10080 Willow Creek Road, San Diego, CA 92131, phone  
> (858)  
> 695-3806, fax (858) 695-3807.  
>  
> I look forward to working with you to help inform people about solar  
> water  
> purification.  
>  
> Sincerely  
> Frank Husson  
> Solar Solutions LLC  
>  
> -----Original Message-----  
> From: T.H. Culhane [mailto:tculhane@ucla.edu]  
> Sent: Friday, September 10, 2004 3:26 PM  
> To: contact@solarsolutions.info  
> Cc: lynnfriji@yahoo.ca; Pia Lassak; james@totaltraining.com;

> MrsIats@aol.com; Anais; Allaham, Eliza F .. .  
> Subject: Thank you for the Aquacone!  
>  
>  
> Dear Sirs/Madams,  
>  
> I have returned to Cairo from performing in a music festival in Munich  
> for  
> the World Youth Alliance and discovered to my delight that you sent our  
> science center an Aqua Cone trail unit. We are very appreciative and  
> will  
> be putting it to use next week when we start receiving students and  
> visitors  
> during the new academic year. We have just finished building our own  
> large  
> Solar Distiller based on observations of German units featured at the  
> Freiburg Solar Conference that I attended in Germany two months ago,  
> and  
> will be doing a unit on solar water purification. We shall send you  
> pictures of how we are demonstrating your unit and hope that we can  
> create a  
> market for your technology here. (I became an enthusiast for your  
> Aquacone  
> when I purchased one through the Los Angeles Real Goods outlet for my  
> field  
> site in rural Guatemala where it helped me and my team provide clean  
> water  
> for our research living on a contaminated lake. I think we can see  
> similar  
> benefits here in the Arab World. )  
>  
> As a member of the Board of Directors at the Wadi Center I am currently  
> putting together a major event with the U.S. State Department that you  
> might  
> be interested in participating in. From November 27th - December 13th  
> the  
> American Cultural Affairs office, in conjunction with the Wadi Center,  
> will  
> be hosting a "sustainable development goodwill ambassador tour",  
> bringing  
> the American rock and world music band "Circus Guy" back to the Middle  
> East  
> for its eighth tour since the September 11th tragedy. This time  
> "Circus  
> Guy", which has toured Syria, Kuwait, Oman, Jordan, Israel, Palestine,  
> Cyprus and Bahrain, will perform throughout Egypt, playing, among  
> their  
> repertoire, original songs about renewable energy and demonstrating new  
> energy technologies on stage along the way. At least three of the  
> concerts  
> will be powered by the sun and the wind (two at our Wadi Center, and  
> one  
> charity concert at the Bassaissa Solar demonstration village in the  
> Sinai)  
> and the theme of tour will be, essentially, "Solar Solutions to World  
> Problems" (we have a song called "The Future is Now" with a multimedia  
> slide  
> show that will accompany the music). Given that you ARE  
> SolarSolutions, we  
> would be happy to involve you in any way possible -- we would be happy  
> to  
> promote and explain your products and give any representative you may  
> have  
> in the area time to meet with the government officials and business  
> leaders  
> and public in Egypt.  
>

> If you are interested, please give me a mailing address and I will send  
> a  
> letter explaining the tour from the U.S. State Department on their  
> letter  
> head. Our goal is to get as many companies working with solar energy  
> involved in the tour as possible. A few weeks ago I was in Switzerland  
> at  
> the Mont Soleil Renewable Energy Powered Music Festival (Europe's  
> first) and  
> participated as a musician and co-ordinator in Roseville Electric's  
> Renewable Energy Powered Earth Day festival in Northern California two  
> years  
> ago. We feel this is an unprecedented opportunity to build bridges of  
> peace  
> in the Middle East and promote beneficial technologies that can  
> guarantee a  
> brighter future for all.

> Thanks again for sending us the Aquacone. We look forward to a  
> rewarding  
> partnership.

> Sincerely

> T.H. Culhane  
> Board of Directors  
> Wadi Environmental Science Center  
> Cairo Egypt  
> ----- Original Message -----  
> From: <tculhane@mail.ucla.edu>  
> To: <contact@solarsolutions.info>  
> Cc: <tculhane@ucla.edu>  
> Sent: Sunday, August 15, 2004 4:22 PM  
> Subject: Reselling/Distributing in Egypt

> Dear Sirs/Madams,

> We are an Environmental Science Education Field Center on the desert  
> road  
> between Cairo and Alexandria in Egypt which services 500 students and  
> their  
> teachers each week. Our parent company is Wadi Foods, a major supplier  
> of  
> olives, olive oil, chicken and chicken feed throughout the middle east.  
> We  
> have three retail stores, one at the Field Center, and two in the city,  
> and  
> we are beginning to stock the shelves with products that are linked to  
> our  
> sustainable development and environmental science curriculum. We are  
> interested in providing products such as yours to the Egyptian people  
> and  
> are interested in being distributors/resellers of the Aquacone, the  
> Aquapak  
> and other solutions for developing countries.

> Sincerely yours,

> Taha Culhane  
> Board of Directors  
> Wadi Field Center



> AquaCone, \$200/ each  
>  
>  
> AquaPak, \$19.95/ each  
>  
>  
> 7.75% sales tax will be added for California residents. Shipping  
> charges  
> add \$4.95 each within the United States For International orders,  
> contact  
> us for the shipping rates.  
>  
>  
>  
>  
>  
> -----  
> mail2web - Check your email from the web at  
> <http://mail2web.com/> .  
>  
>  
>



## Sharon Hanson

---

**From:** Kevin Porter [kevin@solarcookers.org]  
**Sent:** Monday, August 02, 2004 9:47 AM  
**To:** fhussan@solarsolutions.info  
**Subject:** RE: AquaPak

Hi Frank,

I tend to move slowly on these type of decisions, but I'm trying to change my ways :-)

I'd like to order 20 AquaPaks. Please send to the address below (1919...) and include an invoice. Let me know if this doesn't work for you. Thanks!

Kevin

At 08:36 AM 7/30/2004 -0700, you wrote:

>Dear Kevin:

>

>Thank you for your email. It is good to hear from you! I am doing very well, thank you, and hope that you are, as well.

>

>We would be very happy to offer the AquaPak to you for \$10.00 each FOB San Diego which is a 50% discount from our normal retail price of \$20. An additional 5% discount would also be extended to you on quantities of 20 or more AquaPaks.

>

>I look forward to hearing back from you. Please let me know if we can be of any other assistance.

>

>Best regards,

>Frank

>

>-----Original Message-----

>From: Kevin Porter [mailto:kevin@solarcookers.org]

>Sent: Thursday, July 29, 2004 4:41 PM

>To: contact@solarsolutions.info

>Cc: Bev Blum; Bob Metcalf

>Subject: AquaPak

>

>

>Hi Frank,

>

>It's been a while since we last communicated. I hope you are doing well. I hear from Bob Metcalf that the WAPI wax you are making for him is working well. Thanks so much for you help with this.

>

>We have been thinking of expanding our product offerings and are exploring the AquaPak as one item we might try to carry. Sales has been only a minor part of what we do, but it is an important service that we offer and we want to expand in the years to come. I wouldn't imagine that we would sell a large volume of AquaPaks, but perhaps a few dozen per year. (For reference, we sell 700-800 or so solar cookers per year out of our Sacramento office.) What would be the terms if we were to stock 20 or 30 of these at a time?

>

>Thanks,

>Kevin

>

>

>.....

>Kevin Porter

>Education Resources Director

>Solar Cookers International  
>1919 21st Street, Suite 101  
>Sacramento, CA 95814, USA  
>tel: 916-455-4499  
>fax: 916-455-4498  
>kevin@solarcookers.org  
>www.solarcookers.org

## Sharon Hanson

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**From:** Hank Reinhoudt [Hank.Reinhoudt@unilever.com]  
**Sent:** Friday, February 27, 2004 7:27 AM  
**To:** fhuss@solarsolutions.info  
**Subject:** RE: More Aquapak samples required

Dear Frank,

Thank you very much. I'll keep you updated on our progress.

Kind regards,

Hank

-----Original Message-----

**From:** Frank Husson [SMTP:fhuss@solarsolutions.info]  
**Sent:** Thursday, February 26, 2004 7:57 PM  
**To:** Hank Reinhoudt  
**Subject:** RE: More Aquapak samples required

Dear Hank:

Thank you for your email. The AquaPaks will be sent to you today via US Post Office Global Priority mail.

I look forward to hearing from you after you have received the samples.

Sincerely,  
Frank

-----Original Message-----

**From:** Hank Reinhoudt [mailto:Hank.Reinhoudt@unilever.com]  
**Sent:** Thursday, February 26, 2004 1:51 AM  
**To:** fhuss@solarsolutions.info  
**Subject:** FW: More Aquapak samples required

Dear Frank,

I would appreciate if you could send the Aquapacks to the following address:

Unilever Research and Development Vlaardingen  
LFEDC-GTC  
Att: Hank Reinhoudt  
Olivier van Noortlaan 120, 3130 AC Vlaardingen  
The Netherlands

Thank you in advance,

Kind regards,

Hank

-----Original Message-----

**From:** Suresh Nadakatti [SMTP:Suresh.Nadakatti@unilever.com]  
**Sent:** Wednesday, February 25, 2004 11:43 PM  
**To:** Reinhoudt, Hank  
**Subject:** FW: More Aquapak samples required

Dear Hank,

Pl. send your mailing address to Solar Solutions.

Regards,

Suresh

-----Original Message-----

From: Frank Husson [SMTP:fhusson@solarsolutions.info]  
Sent: Wednesday, February 25, 2004 2:38 PM  
To: Suresh Nadakatti  
Subject: RE: More Aquapak samples required

Dear Suresh:

Thank you for your email. We look forward to receiving your colleague's address so we can ship the AquaPaks to him.

Best regards.

Sincerely,  
Frank

-----Original Message-----

From: Suresh Nadakatti [mailto:Suresh.Nadakatti@unilever.com]  
Sent: Wednesday, February 25, 2004 10:53 AM  
To: fhusson@solarsolutions.info  
Cc: Reinhoudt, Hank  
Subject: More Aquapak samples required

Dear Frank,

There is more interest regarding your technology from Unilever R&D. My colleagues in Holland would like to test the technology for few of their applications. Pl. let me know if you would be able to send 3 aquapaks to my colleague Hank Reinhoudt in Holland. By a copy of this message I am requesting Hank to send you his mailing address.

I will be returning to India next week. If I need any info or help I will contact you. Hopefully we will be able to work together in the near future.

Thanks & regards,

Suresh

Dr. Suresh Nadakatti  
Unilever Technology Ventures  
812, Anacapa St. Ste A  
Santa Barbara, CA 93101  
Tel : 805 963 0250  
Fax : 805 963 0270  
Cell : 805 331 3242  
www.unilevertechnologyventures.com

## Sharon Hanson

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**From:** Dr. Jeff Goodman [jgoodman@imcworldwide.org]  
**Sent:** Thursday, December 18, 2003 9:17 AM  
**To:** fhusson@solarsolutions.info  
**Cc:** donald@aloha.net  
**Subject:** RE: AquaPak Solar Water Pasteurizer

Dear Frank Husson:

I thank you for writing. Don sent me your e-mail address, but it was not accessible. I am currently in Sierra Leone and spent a few days in Liberia working on a DDR project Disarmament, demobilization and reintegration of the ex-combatants in that war-torn country.

I tried to access your web site, but my isp connection is too slow. I will going to the US tomorrow for the holidays and will try to get to your web site for more info. Your product sounds interesting.

Liberia fits within the parameters of your product and I can tell you that clean water in a huge problem here. I have some interesting statistics re the availability of water (or the lack of it) and will forward them to you so that you will have a greater understanding of how large the problem is

We should keep communications open. Please e-mail me again next week in case I get caught up in the holiday cheer with my two sons.

My organization is the International Medical Corps. You might look them up on the web to see their extensive programs throughout the World. I am proud to be a part of the team in Liberia.

Thanks to Don for the introduction.

Jeff

**Sharon Hanson**

---

**From:** lucy mulenkei [mulenkei@yahoo.com]  
**Sent:** Saturday, October 11, 2003 7:50 AM  
**To:** Frank Husson  
**Cc:** paranlolo@newtechadvisors.com  
**Subject:** Re: AquaPak Solar Water Pasteurizer

Dear mr. Frank Husson,

Sorry to have taken that long to write back. I have finally gotten a feed back back from the community. I visited there and actually took water from it. We had a short demonstration from David Fabiaono Lolosoli who is one of the community leaders. He tells me he has even found someone who can make them here. I have requested him to communicate to you and you can do the same so that we can see how it will work so that we take it to the other communities.

His email is [paranlolo@afriacaonline.co.ke](mailto:paranlolo@afriacaonline.co.ke)

I have copied this email to him too.

Hope to hear from you again

Lucy

**Frank Husson** <[fhusson@solarsolutions.info](mailto:fhusson@solarsolutions.info)> wrote:

Dear Lucy:

I hope you made it home safely from your trip to New York. I am anxious to get your feedback on the AquaPak solar water pasteurizer that I gave to you at the UN.

We are anxious to identify entrepreneurs and businesses in Kenya and other African countries who would want to manufacture this product. When using a labor rate of \$1.00US per hour or less, the AquaPak could be manufactured for approximately \$1.00 each.

I did not get a business card from the American Indian who was leading the discussion from the Indigenous people's contingent and was wondering if you could provide me with his name and email address. I would like to follow up with him as I was able to give him an AquaPak the day after we met.

If there is any other information or samples you would like, please do not hesitate to contact me.

Sincerely,  
Frank Husson

---

Do you Yahoo!?

The New Yahoo! Shopping - with improved product search

**Sharon Hanson**

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**From:** Pat Crowell [pcrowell@san.rr.com]  
**Sent:** Sunday, September 15, 2002 9:12 AM  
**To:** frank husson  
**Cc:** ron beaubien; ed futa  
**Subject:** rotary meeting report

Dear Frank,

Yesterday I met with my friend, Ron Beaubien, who will be an International Director of Rotary starting next year, and with Ed Futa, who is the executive secretary of Rotary International (R.I.), out of Evanston, Il. I gave them the two bags and the literature that you had given me, and we had a lengthy discussion about the project, its potential , and Rotary's possible involvement.

It is fair to say that both were impressed with the device and its potential for helping solve the problem of potable water, in which R.I. is very much interested. They will do some thinking, and possibly brief the other members of the R.I. board and also possibly seek a committee to study how best to proceed. All in all I thought it was a most productive meeting and the subject got thoroughly covered.

One fallout of the meeting is that both of them know a very prominent rotarian in Mexico City. His name is Salomon Pesel. He owns a plastics business, making all kinds of devices. He will be calling me this week, and I hope I can send him some information and talk him in to coming up here and getting him to meet and talk with you. He may just be the person who could put together a venture to manufacture these units in

Mexico. I will call you when he contacts me and we will see where that will lead.

Again thank you for providing these items so that we can spread the word and get this thing off the ground.

Best Regards, Pat



## Sharon Hanson

---

**From:** Nicolas Coto [ncoto@projectconcern.org]  
**Sent:** Thursday, September 25, 2003 10:55 AM  
**To:** Frank Husson  
**Subject:** RE: AquaPak Solar Water Pasteurizer

Hi Mr. Husson:

I'm sorry for my answer late, and for my English, as well. I want to thanks you for your help to our communities, again. The people from Las Cuevitas are very happy because now they can ensure that the water that they are drinking is clean. In the most of the cases the man of the family is using the filter when he goes to work the land in his agriculture activities. This is due that in the most of the places where they work does not have clean water. This situation does that the other members of the family; they don't have any filter for the house. Would be better if we can give them other filter.

In the next days, I'm going to send you another report.

Thanks,

Nicolás Coto

-----Original Message-----

**From:** Frank Husson [mailto:fhusson@solarsolutions.info]  
**Sent:** Wednesday, September 03, 2003 11:11 AM  
**To:** Nicolas Coto  
**Subject:** FW: AquaPak Solar Water Pasteurizer

Dear Nicolas:

We are forwarding a copy of our earlier email as we have experienced some problems with our email recently and wanted to make sure you received it.

We look forward to hearing from you.

Sincerely,  
Sharon Hanson

-----Original Message-----

**From:** Frank Husson [mailto:fhusson@solarsolutions.info]  
**Sent:** Wednesday, August 13, 2003 3:26 PM  
**To:** ncoto@projectconcern.org  
**Subject:** AquaPak Solar Water Pasteurizer

Dear Nicolas:

Thank you very much for the two page report with pictures about the implementation of our solar-powered water pasteurizer in the community of Cuevitas. Your report was very well done!

From reading the report, it sounds like an additional 20-30 AquaPaks could be used by the families with small children and by the health promoters. If you would like, I will send these units to you. Please let me know your shipping address.

The current AquaPak is designed to pasteurize water at 67 degrees C and has an orange WAPI (Water Pasteurization Indicator). The original AquaPak used a yellow WAPI and pasteurized water at 70 degrees C. Either temperature will work, but the 67 degree C will allow you to produce more potable water.

I will send your report to some of the other groups, including UNICEF and the Rotary International, who are interested in the potable water problem of rural people. If you have been able to collect any statistical data on the amount of diarrhea-related diseases associated with pathogen-laden water, it would be interesting to know the reduction in these cases that might be attributable to the AquaPak.

If you have any other input or pictures, we would very much like to hear from you. Please keep up the good work! I look forward to working with you to provide potable water to the people of Cuevitas.

Sincerely,  
Frank Husson

## Sharon Hanson

---

**From:** Pat Crowell [pcrowell@san.rr.com]  
**Sent:** Thursday, September 26, 2002 3:38 PM  
**To:** frank husson  
**Subject:** FW: Rotary Water

-----  
From: Niles Sharif <nrs00@pacbell.net>  
Date: Thu, 26 Sep 2002 15:31:06 -0700  
To: Wendell Cutting <>wendell.cutting@gcccd.net>  
Cc: "Robert E. James" <Rejames5428@cs.com>, pcrowell@san.rr.com  
Subject: Rotary Water

Wendell --

Our club is contemplating getting involved in a clean water project in San Quintin, Mexico. Yesterday, several of our members met with PDG Pat Crowell who also is interested in doing clean water projects in third world countries. The project our club is looking at involves ways to store fresh water so as to keep it fresh. Pat's projects focus on ways to purify dirty water.

Pat introduced us to a water purification technology that involves pasteurization through solar heating. The device is a very basic invention which can sterilize about 5 liters of contaminated water in 70 or so minutes. Believe it or not, its most significant component is simple bubble wrap plastic. The device is portable and can even be fitted to be worn like a backpack. Basically, you fill the device with water, stick it in the sun, and in approximately 70 minutes you have fresh water. Each unit can be produced for about \$1 per unit if manufactured in Asia, for example (as opposed to about \$5 in the US).

Pat is in the process of testing the use and efficiency of the units in the field and developing a written protocol for their distribution. At this time, there are units in the field in rural parts of Mexico and a few other places, but he is looking for additional test locations. I thought perhaps that with your extensive travel experience you might know of some locations where this technology would be useful, and that you also might be willing to put us in contact with people who could help get the devices into the field. I told Pat that you would be a good person to talk to.

Let me know if this is something that interests you and if you think you can help.

Hope all is well.

Niles R. Sharif, Attorney at Law  
Grossmont Professional Building  
9001 Grossmont Blvd., Suite 719  
La Mesa, CA 91941  
Telephone: (619) 463-9111  
Facsimile: (619) 463-0777